

REPRODUCTIVE INDICATORS of LEGUMINOUS PLANTS AS A CHARACTERISTIC of the ECOLOGICAL STATE of URBAN AREAS

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Abstract

© Published under licence by IOP Publishing Ltd. This article examines the results of many years of research on the reproductive performance of six species of leguminous plants (Fabaceae Lind., 1836) under conditions of urbanization of habitat (Kazan). The range of variability of the main reproductive indices in six species is illustrated: the potential productivity, the actual productivity of the six main types of leguminous plants. The features of variability of seed death at different stages of development are shown depending on habitat conditions. It is established that the main regularities of changes in reproductive parameters depending on habitat conditions are manifested both in native species and in the introduced species *Caragana arborescens* Lam., 1785. Based on the results of the study we made conclusion about the advisability of monitoring the reproductive parameters of leguminous plants for indicating the state of the environment in a large city.

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